

2003 ELECTRICAL

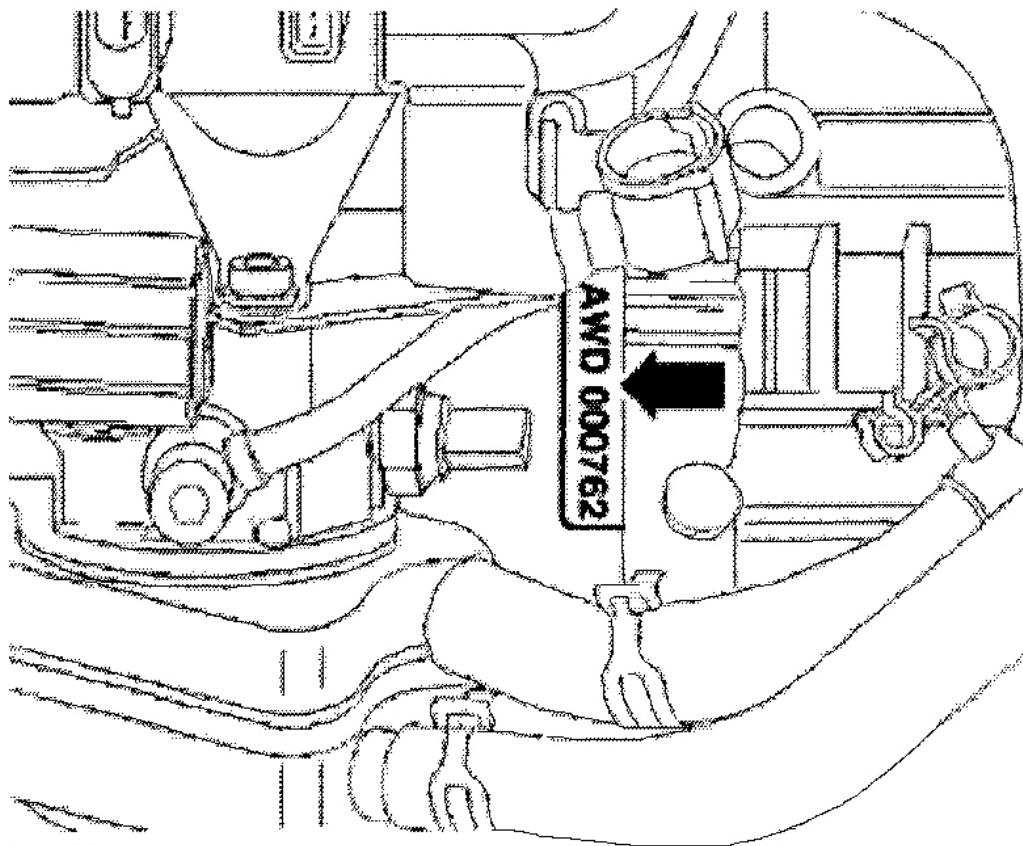
Fuses & Circuit Breakers - New Beetle & New Beetle Convertible

IDENTIFICATION

ENGINE CODE

Engines are identified by a 3-letter code stamped on the engine. For engine code locations, see **Fig. 1 -Fig. 3** . Engine codes are also located on the vehicle data plate.

NOTE: Engine number for 1.8L turbo can be found on mating flange between engine and transmission. Additionally there is a sticker on cylinder head (valve) cover with engine code and serial number.



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Fig. 1: Locating Engine Identification Code (1.8L - AWD Shown; AWD Similar)

Courtesy of VOLKSWAGEN UNITED STATES, INC.

NOTE: Engine code for 1.9L TDI is located between diesel injection pump and exhaust manifold, on engine block. Additionally there is a sticker on the timing belt guard containing engine code and serial number. Engine code is also included on vehicle data plate.

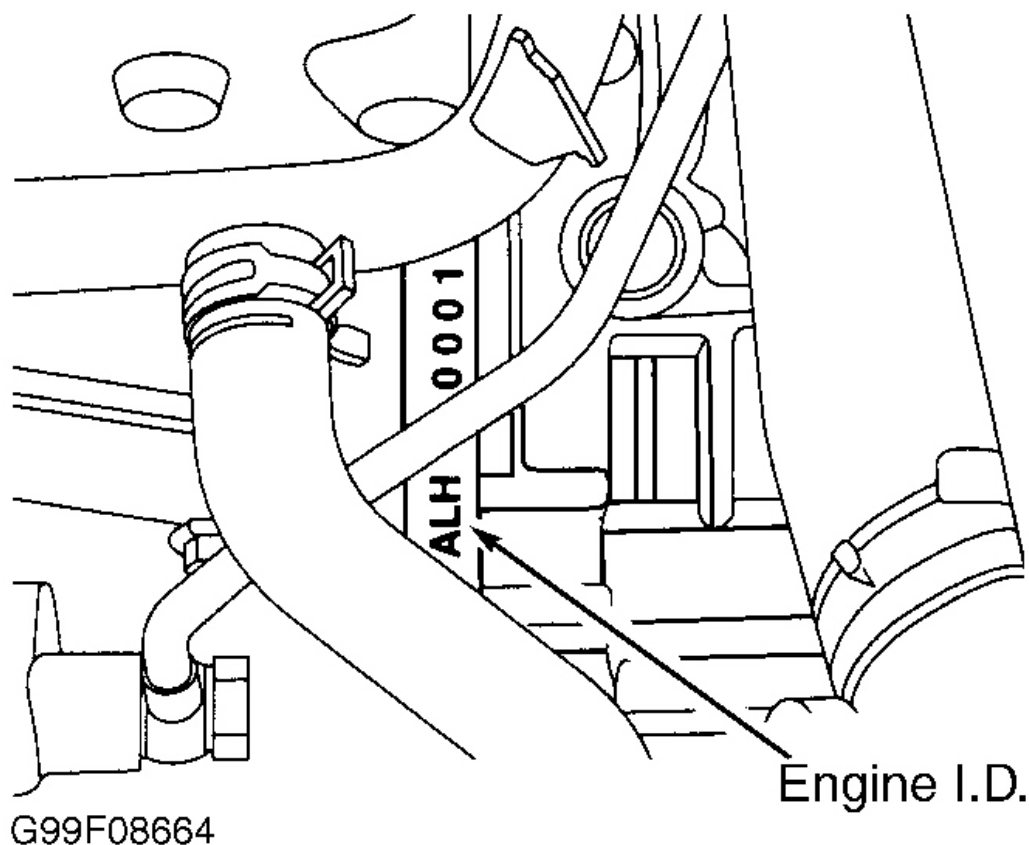
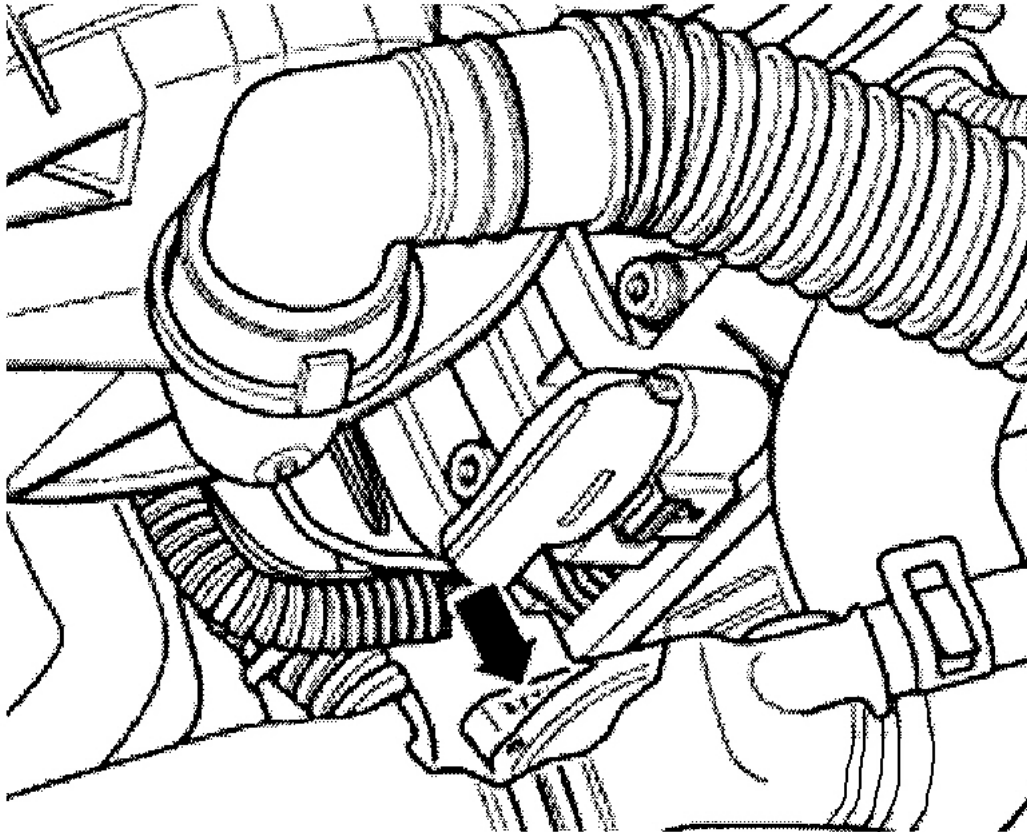


Fig. 2: Locating Engine Identification Code (1.9L TDI - ALH)
Courtesy of VOLKSWAGEN UNITED STATES, INC.

NOTE: Engine code and serial number for 2.0L is located can be found on flange between engine/transmission. Additionally there is a sticker on the timing belt guard containing engine code and serial number. Engine code is also included on vehicle data plate.



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Fig. 3: Locating Engine Identification Code (2.0L - AVH/AZG & BDC)
Courtesy of VOLKSWAGEN UNITED STATES, INC.

FUSES

FUSE COLOR IDENTIFICATION

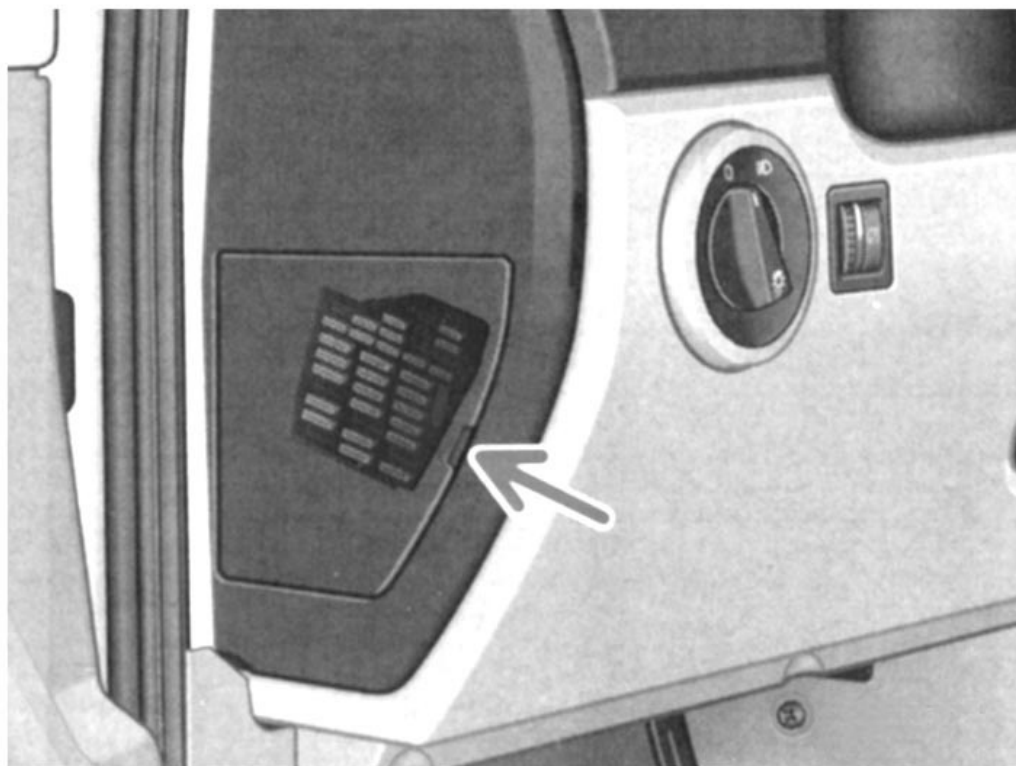
FUSE COLOR/AMP RATING

Fuse Color	Amp Rating
Beige	5
Blue	15
Brown	7.5
Green	30
Red	10
Violet	3

White	25
Yellow	20

FUSE (HOLDER) PANEL LOCATION

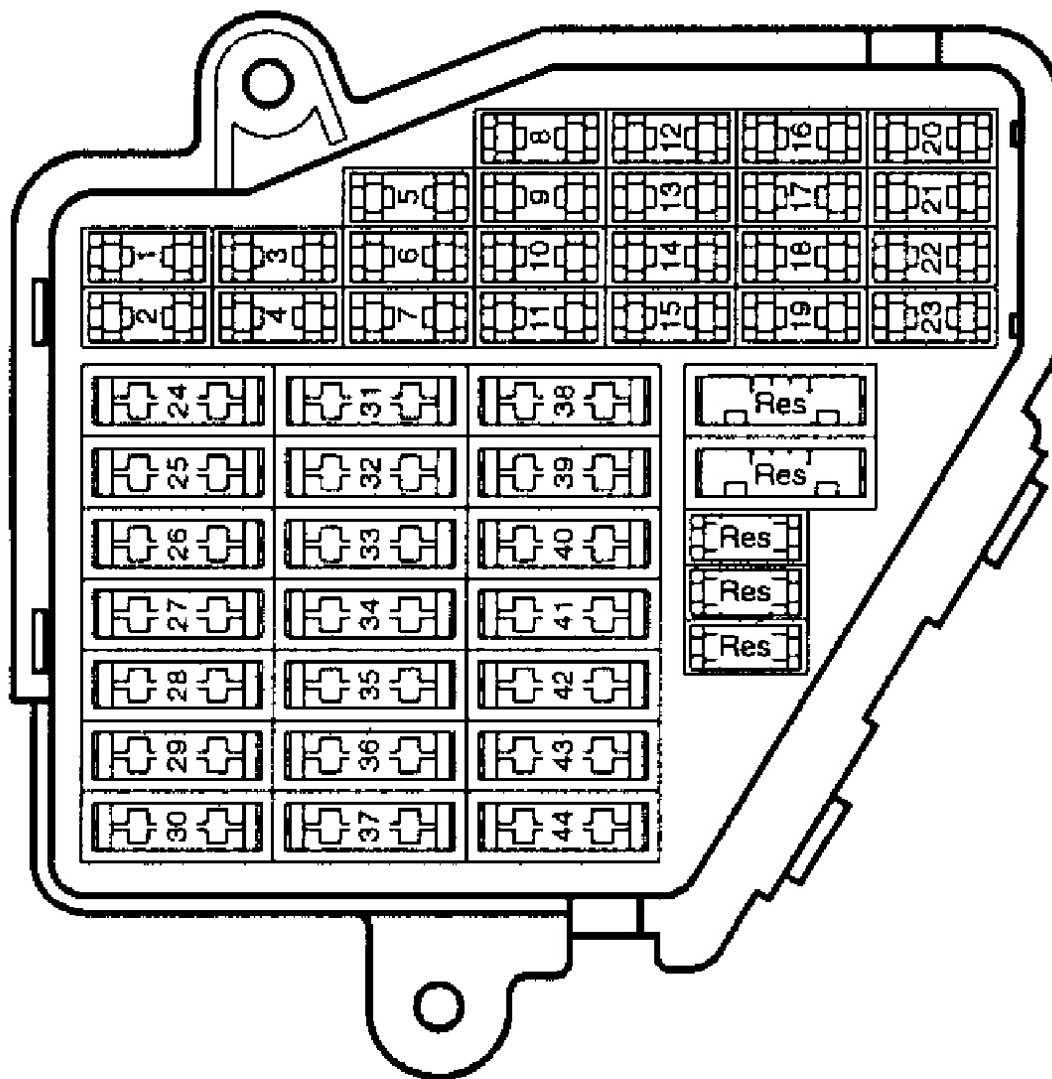
Fuse (holder) panel is located behind trim panel on far left side of dashboard. See **Fig. 4** .



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Fig. 4: Locating Fuse (Holder) Panel

Courtesy of VOLKSWAGEN UNITED STATES, INC.



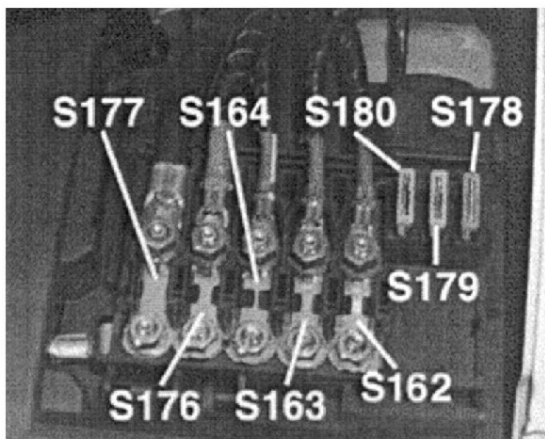
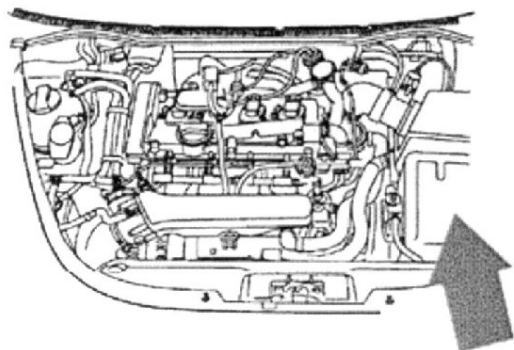
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Fig. 5: Identifying Fuse Panel Fuse Locations
 Courtesy of AUDI OF AMERICA, INC.

FUSE PANEL IDENTIFICATION

Fuse Bracket/Battery Panel

Fuse bracket/battery panel is located on battery cover. See **Fig. 6**.



- on battery cover, inside protective housing

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Fig. 6: Locating Fuse Bracket/Battery Panel
Courtesy of VOLKSWAGEN UNITED STATES, INC.

FUSE IDENTIFICATION (FUSE BRACKET/BATTERY PANEL)

Fuse No.	Amp Rating	Circuit Protected
S162		
Engine Codes AVH/AZG	50	Secondary Air Injection Pump Relay
Engine Code AWV	50	Fuse 51 (20 A), Secondary Air Injection Pump Relay
Engine Code ALH	50	Preheating Coolant (Low & High Heat Output) Relay
S163		
Engine Codes AVH/AZG, AWV & BDC	50	Fuel Pump Relay
Engine Code ALH	50	Glow Plug Triggering Control Module
S164		
Engine Code AVH/AZG & ALH	30	Coolant Fan Control Module
AWV	30	Third Speed Coolant Fan Control Relay
BDC	40	Secondary Air Injection Pump Relay
S176	110	Load Reduction Relay
S177		
All Engine Codes	110	Generator
BDC	150	Generator
S178	30	ABS Control Module

S179	30	ABS Control Module
S180	30	Coolant Fan Control Thermal Switch

Fuse (Holder) Panel

For fuse position number, amp rating and description of circuits protected, see **FUSE IDENTIFICATION (FUSE HOLDER PANEL)** table.

NOTE: Fuses 23 through 44 may be designated in wiring diagrams with a prefix of 2. For example, fuse No. 29 may be labeled as 229. Fuse No. 43 may be labeled as 243.

FUSE IDENTIFICATION (FUSE HOLDER PANEL)

Fuse No.	Amp Rating	Circuit Protected
1	10	Glove Compartment Light Switch, Glove Compartment Light, Washer Nozzle Heater (Left & Right), Heated Mirror Relay
2	10	Turn Signal Relay
3	5	Instrument Panel Light Dimmer Switch
4	5	Dual Horns, License Plate Light
5	7.5	Clutch Vacuum Vent Valve Switch, Power Mirror Switch, Driver's Heated Seat Adjust Control Switch, Automatic Day/Night Interior Mirror, Cruise Control Switch, A-C High Pressure Sensor, Fresh Air/Recirculation Air Switch, ⁽¹⁾ Brake Vacuum Vent Switch, ⁽²⁾ Brake Pedal Switch
6	5	Comfort System Central Control Module, Driver's Door Warning Indicator Light
7	10	Back-Up Light Switch, Park Neutral Position Relay, Selector Lever Position Warning Light, Speedometer Vehicle Speed Sensor, ⁽³⁾ Multi-Function Transmission Range Switch
8	N/A	Vacant
9	5	ABS Control Module, Anti-Slip Control Switch, Steering Angle Sensor
10		
All Engine Codes	10	ECM, ECM Power Relay
Engine Code ALH	10	Diesel Direct Fuel Injection ECM
11	5	Instrument Panel, Instrument Panel Control Indicator Unit, Shift Lock Solenoid
12	7.5	DLC (Terminal 16)

13	10	High Mount Brake Light, Left Brake/Tail Light, Brake Light Switch
14	10	Comfort System Central Control Module
15	5	Control Module W/Indicator, Transmission Control Module, ABS Warning Indicator Light
16	10	Coolant Fan Control Module
17	N/A	Vacant
18	10	Headlight High Beam Indicator
19	10	Headlight (High Beam - Left)
20	15	Headlight (High & Low Beam - Right)
21	15	Daytime Running Lights Change-Over Relay, Headlight (Low Beam - Left)
22	5	Control Module W/Indicator, Parking Light (Right), Front Side Marker Light (Right), Tail Light (Right), Brake Light (Right) Turn Signal Light (Right Front)
23	5	Control Module W/Indicator, Tail Light (Left), Parking Light (Left), Front Side Marker Light (Left), Brake Light (Left), Turn Signal (Left), Headlight Switch
24	20	Wiper/Washer Intermittent Relay & Switch
25	25	Fresh Air Blower Switch, Fresh Air Blower Motor
26	20	Rear Window Defogger Switch
27	N/A	Vacant
28	15	Fuel Pump
29		
All Engine Codes	15	ECM
Engine Code ALH	10	Diesel Direct Fuel Injection ECM
30	20	Power Sunroof Control Module
31	20	Transmission Control Module, Multi-Function Transmission Range Switch, Brake Booster Control Module
32		
All Engine Codes	10	Fuel Injectors
Engine Code ALH	15	Diesel Direct Fuel Injection ECM, Modulating Piston Displacement Sensor, PCV Heating Element
33	20	Wiper/Washer Intermittent Relay
34		
Engine Codes AVH/AZG & BDC	10	PCV Heating Element

Engine Code AWV	10	Turbocharger Recirculation Valve, Wastegate Bypass Valve, Camshaft Adjuster Valve
Engine Code ALH	10	Wastegate Bypass Regulator Valve, EGR Vacuum Regulator Solenoid Valve, Intake Manifold Flap Change-Over Valve, Cold Start Injector, Glow Plug Triggering Control Module
35	30	(4) Luggage Compartment 12V Outlet
36	15	Fog Light Switch
37	10	Comfort System Central Control Module, Instrument Cluster, Radio
38	15	Remote Fuel Door Switch & Motor, Comfort System Central Control Module
39	15	Turn Signal Relay, Side Door Control Module (Driver's & Passenger's)
40	20	Dual Horn Relay
41	15	Cigarette Lighter, Cigarette Lighter Light, 12V Socket, (5) Luggage Compartment 12V Outlet, Lighting Controller Illumination, Rear Window Defogger Switch Illumination
42	25	Radio, Amplifier, Emergency Flasher
43		
All Engine Codes	10	Brake Vacuum Vent Valve Solenoid, Leak Detection Pump, Heated Oxygen Sensors Pre & Post Catalytic Converter, EVAP Canister Purge Regulator Valve
Engine Code ALH	10	Brake Vacuum Vent Valve Solenoid, Brake Pedal Switch
44	15	Heated Seat Control Module (Driver's & Passenger's)
67	30	Convertible Top Control Module
68	30	Convertible Top Hydraulic Pump Relay Circuit Breaker
(1) On 1.8L (AWV) engines only. (2) On 2.0L (AVH/AZG and BDC) engines only. (3) On 2.0L Engine (BDC) only. (4) On Convertible only. (5) Except Convertible.		

MISCELLANEOUS FUSES

Fuse No.	Amp Rating	Circuit Protected
S51 (1)	20	Brake System Vacuum Pump (Automatic Only)
S329 (2)	30	Rear Spoiler Motor

(1) Located in left side of engine compartment, within protective housing.

(2) Only equipped on 1.8L GL.

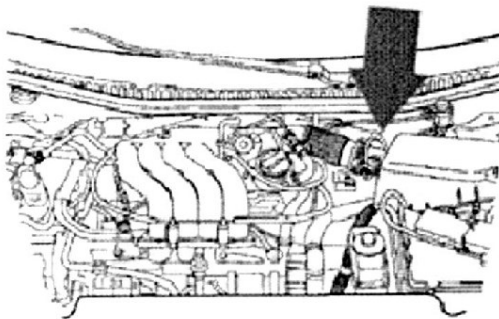
RELAYS

RELAY PANEL & THIRTEENFOLD AUXILIARY RELAY PANEL

NOTE: Relay panels are under driver's side of dash, behind trim panel.

For ECM power, secondary air injection pump relays and relay for preheating coolant (high and low output) locations, see **Fig. 7** , **Fig. 8** or **Fig. 9** . For relay positions, see **Fig. 10** .

Thirteenfold auxiliary relay panel is located above relay panel. For relay number, position number and circuits protected, see **RELAY IDENTIFICATION (RELAY PANEL)** and **RELAY IDENTIFICATION (THIRTEENFOLD AUXILIARY RELAY PANEL)** table.

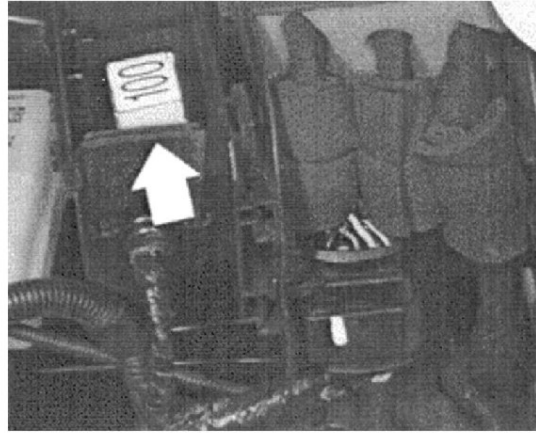
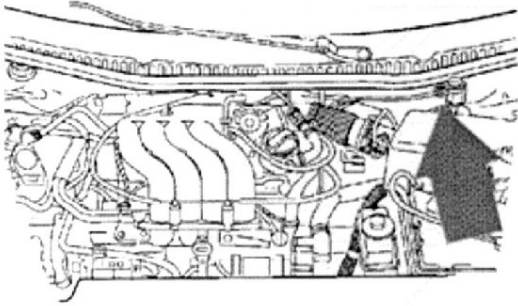


J271 Motronic Engine Control Module (ECM) power supply relay

- in engine compartment, left side, to left of brake fluid reservoir, inside housing

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Fig. 7: Locating ECM Power Supply Relay
Courtesy of VOLKSWAGEN UNITED STATES, INC.

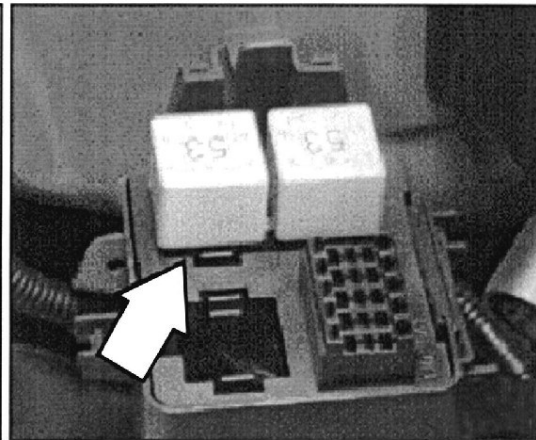
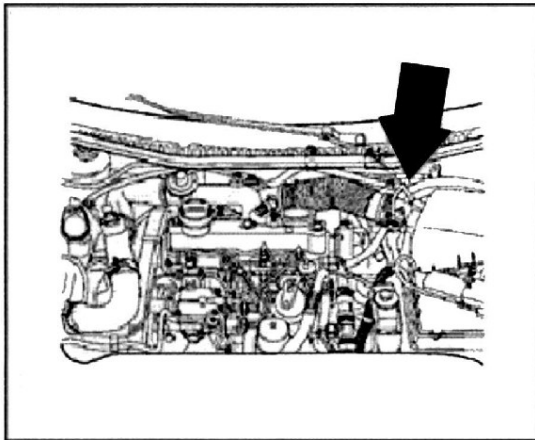


J299 Secondary Air Injection (AIR) pump relay

- in engine compartment, left side, to left of brake fluid reservoir, inside housing

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Fig. 8: Locating Secondary Air Injection Pump Relay
 Courtesy of VOLKSWAGEN UNITED STATES, INC.



J359 Relay for preheating coolant, low heat output

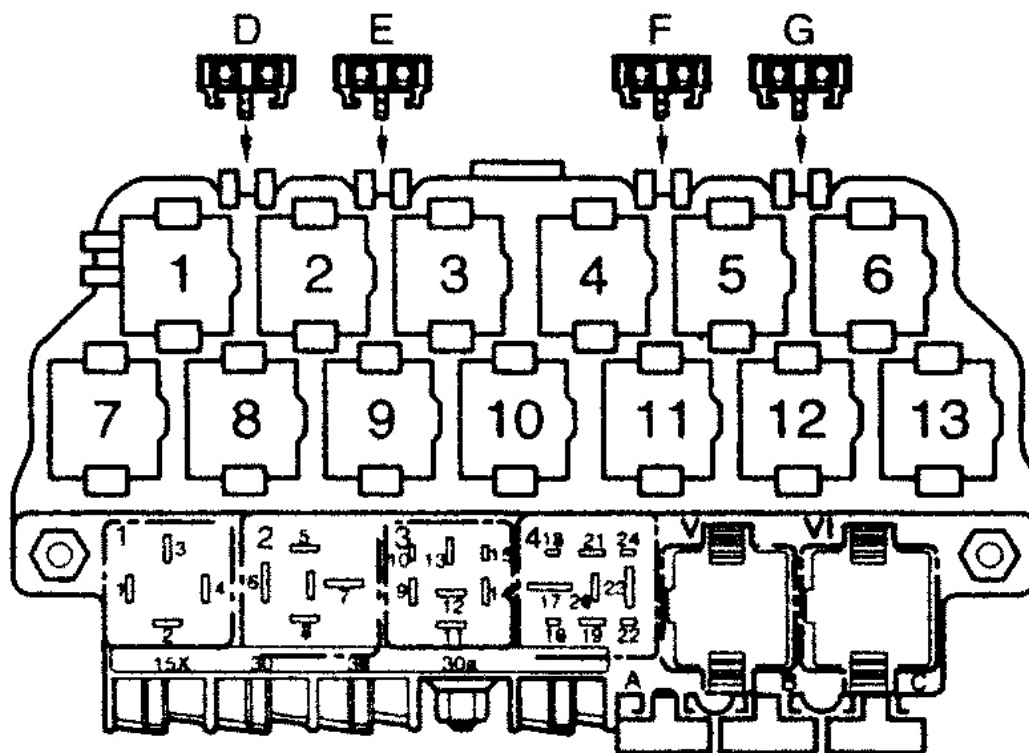
- in engine compartment, left side, to left of brake fluid reservoir, inside housing

J360 Relay for preheating coolant, high heat output

- next to J359

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Fig. 9: Locating Relay For Preheating Coolant (High & Low Heat Output - 1.9L TDI ALH)
 Courtesy of VOLKSWAGEN UNITED STATES, INC.



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Fig. 10: Identifying Relay Panel Components
 Courtesy of VOLKSWAGEN UNITED STATES, INC.

RELAY IDENTIFICATION (RELAY PANEL)

Position No.	Relay No.	Circuit Protected
1	J4	Dual Horn
2	J59	Load Reduction
3	N/A	Not Used
4	J17	Fuel Pump
V	J31	Wiper/Washer Intermittent
VI	J31	Wiper/Washer Intermittent

RELAY IDENTIFICATION (THIRTEENFOLD AUXILIARY RELAY PANEL)

Position No.	Relay No.	Circuit Protected
1	N/A	Not Used
2	N/A	Not Used
3	N/A	Not Used

4	J434	Lock Relay For Starter (Clutch Pedal Switch)
5	N/A	Not Used
6	N/A	Not Used
7	J89	Daytime Running Light Change-Over
8	J99	(1) Heated Exterior Mirror
9	N/A	Not Used
10		
J52		(2) Glow Plug
J135		(3) Third Speed Coolant Fan Control
11	J226	Park/Neutral Position
12	J317	(2) Power Supply (Terminal 30, B+)
13	N/A	Not Used
(1) On models equipped with manual windows. (2) Applies to vehicles equipped with 1.9L (ALH) only. (3) On 1.8L (AWV) only.		

NOTE: Fuse panel is located above thirteenfold auxiliary relay panel. For positions on thirteenfold auxiliary relay panel, see Fig. 10 .

FUSE IDENTIFICATION (THIRTEENFOLD AUXILIARY RELAY PANEL)

Position No. (1)	Fuse No.	Amp Rating	Circuit Protected
B (2)	S283	15	Brake Vacuum Pump
E	S43	30	Power Window Circuit Breaker
F	S111	15	Alarm System & Anti-Theft
G	S144	15	Central Locking/Anti-Theft Warning System
(1) Manufacturer does not specify position of fuse. Available position is "A", "C" and "D". (2) On convertible models only.			